

Buccino, Dustin R (332K)

From: Buccino, Dustin R (332K) <Dustin.R.Buccino@jpl.nasa.gov>
Sent: Monday, November 11, 2013 8:46 AM
To: rs@list.jpl.nasa.gov
Subject: Cassini SCE10 Report: S81, 2013/314 DSS-43

Cassini SCE10 Report
November 10, 2013 12:00PM PDT
2013/314-20:00 UTC

314 2000 2100 0600 0615 43 CAS TP RS199-SCE10 0314

Pass scripted by Dustin

DSS-43
X-band (RSR2A, fgain 48)
S-band (RSR2B, fgain 50)

X-band Pc/No log is not steady. See log plot 2013_314_DSS43X_RSR2A.png

Per ACE log,

Weather: Overcast with rain
Equipment: Green

X-band is on DCC-02
S-band is on DCC-01

21:02:43 – DCCs in lock. AceLog reports CONSCAN ON
21:10:00 – Transmitter ON
21:16:22 – AceLog reports CONSCAN is still ON
22:01:01 – AceLog reports CONSCAN is still ON
00:05:36 – Station reports “fairly heavy rain” that is expected to last until after EOT. **DR# C109607** documents rain outage problems
00:10:55 – Out of lock, going 2-way
00:13:35 – AceLog reports CONSCAN is OFF
03:01:00 – TLM is going “glitchy” due to the rain
06:00:00 – EOT

Per NMC log,

21:02:42 – Conscan turned on
(There is no Conscan off time directly, however, 00:12:03 – CON values go to 0)

Per DR# C109607, which is now closed:

Action: Originate DR by GORDON CLEE at 2013 315 04:24
Intervention: No
Post-Pass: No
Cause: WE - Weather
SC/User: CAS - Cassini

Antenna: DSS43
Pass Number: 314
Outage Period: 2013 315 00:25 - 2013 315 06:00 (335 mins)
Description:
Heavy rain causing high SNT and loss of telemetry lock.

Corrective Action:
Rain blower on throughout support. SNT reaching >90 at times.

Data has been played back to /rssg/data/CAS/2013_314/SCE/RSR/:

DSS-43, X-band, RCP, 1-way & 2-way
RSR2A, 1kHz, 16-bits
Start: 2013/314-20:50:00
Stop: 2013/315-06:05:00

DSS-43, S-band, RCP, 1-way & 2-way
RSR2B: 1kHz, 16-bits
Start: 2013/314-20:50:00
Stop: 2013/315-06:05:00